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#4

RAW SEQUENCE LISTING      DATE: 11/22/2000  
 PATENT APPLICATION: US/09/706,128      TIME: 11:57:18

Input Set : A:\VPI98-04 CON.sqlist.txt  
 Output Set: N:\CRF3\11222000\I706128.raw

ENTERED

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3 <110> APPLICANT: Xie, Xiaoling
4   Gu, Yong
5   Markland, William
6   Su, Michael S.
7   Caron, Paul R.
8   Fox, Edward
9   Wilson, Keith P.
10  Vertex Pharmaceuticals, Inc.
12 <120> TITLE OF INVENTION: CRYSTALLIZABLE JNK COMPLEXES
14 <130> FILE REFERENCE: VPI/98-04 CON
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/706,128
C--> 17 <141> CURRENT FILING DATE: 2000-11-03
19 <150> PRIOR APPLICATION NUMBER: PCT/US99/09824, 60/084,056
W--> 20 <151> PRIOR FILING DATE: 1999-05-04, 1998-05-04
22 <160> NUMBER OF SEQ ID NOS: 6
24 <170> SOFTWARE: PatentIn Ver. 2.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 422
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
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32 <223> OTHER INFORMATION: JNK3
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39   20               25               30
41 Ile Ala Lys His Tyr Asn Met Ser Lys Ser Lys Val Asp Asn Gln Phe
42   35               40               45
44 Tyr Ser Val Glu Val Gly Asp Ser Thr Phe Thr Val Leu Lys Arg Tyr
45   50               55               60
47 Gln Asn Leu Lys Pro Ile Gly Ser Gly Ala Gln Gly Ile Val Cys Ala
48   65               70               75               80
50 Ala Tyr Asp Ala Val Leu Asp Arg Asn Val Ala Ile Lys Lys Leu Ser
51   85               90               95
53 Arg Pro Phe Gln Asn Gln Thr His Ala Lys Arg Ala Tyr Arg Glu Leu
54   100              105              110
56 Val Leu Met Lys Cys Val Asn His Lys Asn Ile Ile Ser Leu Leu Asn
57   115              120              125
59 Val Phe Thr Pro Gln Lys Thr Leu Glu Glu Phe Gln Asp Val Tyr Leu
60   130              135              140
62 Val Met Glu Leu Met Asp Ala Asn Leu Cys Gln Val Ile Gln Met Glu
63   145              150              155              160
65 Leu Asp His Glu Arg Met Ser Tyr Leu Leu Tyr Gln Met Leu Cys Gly
66   165              170              175
68 Ile Lys His Leu His Ser Ala Gly Ile Ile His Arg Asp Leu Lys Pro
69   180              185              190

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RAW SEQUENCE LISTING  
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Input Set : A:\VPI98-04 CON.sqllist.txt  
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72      195      200      205
74 Gly Leu Ala Arg Thr Ala Gly Thr Ser Phe Met Met Thr Pro Tyr Val
75      210      215      220
77 Val Thr Arg Tyr Tyr Arg Ala Pro Glu Val Ile Leu Gly Met Gly Tyr
78 225      230      235      240
80 Lys Glu Asn Val Asp Ile Trp Ser Val Gly Cys Ile Met Gly Glu Met
81      245      250      255
83 Val Arg His Lys Ile Leu Phe Pro Gly Arg Asp Tyr Ile Asp Gln Trp
84      260      265      270
86 Asn Lys Val Ile Glu Gln Leu Gly Thr Pro Cys Pro Glu Phe Met Lys
87      275      280      285
89 Lys Leu Gln Pro Thr Val Arg Asn Tyr Val Glu Asn Arg Pro Lys Tyr
90      290      295      300
92 Ala Gly Leu Thr Phe Pro Lys Leu Phe Pro Asp Ser Leu Phe Pro Ala
93 305      310      315      320
95 Asp Ser Glu His Asn Lys Leu Lys Ala Ser Gln Ala Arg Asp Leu Leu
96      325      330      335
98 Ser Lys Met Leu Val Ile Asp Pro Ala Lys Arg Ile Ser Val Asp Asp
99      340      345      350
101 Ala Leu Gln His Pro Tyr Ile Asn Val Trp Tyr Asp Pro Ala Glu Val
102      355      360      365
104 Glu Ala Pro Pro Pro Gln Ile Tyr Asp Lys Gln Leu Asp Glu Arg Glu
105      370      375      380
107 His Thr Ile Glu Glu Trp Lys Glu Leu Ile Tyr Lys Glu Val Met Asn
108 385      390      395      400
110 Ser Glu Glu Lys Thr Lys Asn Gly Val Val Lys Gly Gln Pro Ser Pro
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113 Ser Ala Gln Val Gln Gln
114      420
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123 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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128 <210> SEQ ID NO: 3
129 <211> LENGTH: 37
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
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134 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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141 <212> TYPE: PRT

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VERIFICATION SUMMARY                      DATE: 11/22/2000  
PATENT APPLICATION: US/09/706,128        TIME: 11:57:19

Input Set : A:\VPI98-04 CON.sqlist.txt  
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L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:152 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:152 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:152 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4